

# APPENDIX F

## Water Quality Improvements

Water quality improvements have resulted in pollutants no longer impairing an assessment unit. Each is a success story! Significant resources have been used to identify sources and control pollutant contributions in each case. No current delistings (Appendix E) are occurring based on these improvements.

These water quality improvements are *dependent* on continued application of the improvement noted in this table. Therefore, decision makers about future activities in the watershed or additional discharges need to be aware and continue to support these improvements.

SURFACE WATER DESCRIPTION REACH NUMBER	SIZE (miles / acres)	POLLUTANTS DELISTED DUE TO IMPROVEMENTS	ACTIONS RESULTING IN IMPROVEMENTS	TMDL APPROVED
<b>BILL WILLIAMS WATERSHED</b>				
<b>COLORADO – GRAND CANYON WATERSHED</b>				
<b>LOWER COLORADO - GILA WATERSHED</b>				
Lake Havasu (Thompson Bay) 15030101-0590	19,780 a	<i>E. coli</i> bacteria (Delisted in 2002; first listed in 1996)	1. Improved sanitary facilities at beaches. 2. Public education concerning marine wastewater disposal. 3. Improvements in public wastewater treatment facilities to reduce nutrient loading. 4. Improvement in flow into Thompson Bay under London Bridge. *No remaining impairments	No
Painted Rock Borrow Pit 15070201-1010	185 a	Dieldrin in fish tissue. (Delisted in 2002; first listed in 1988)	General use of the pesticide dieldrin banned *Listed in Category 5 for other pollutants	No
<b>LITTLE COLORADO WATERSHED</b>				
Nutrios Creek From headwaters to Nelson Reservoir 15020001-017A	13.3 m	Turbidity (To delist in 2006; first listed in 1992)	Cattle removed from the riparian area through addition of fencing and alternative sources of water. Riparian area improvements noted. *No remaining impairments	Yes. TMDL approved in 2002
<b>MIDDLE GILA WATERSHED</b>				
Gila River From the Salt River to Painted Rock Reservoir 15070101-001, 005, 007, 008, 009, 010, 014, 015	82.5 m	Dieldrin in fish tissue. (Delisted in 2002; first listed in 1988)	General use of the pesticide dieldrin banned *Listed in Category 5 for other pollutants	No
Hassayampa River From Buckeye Canal to Gila River 15070101-001B	2.3 m	Dieldrin in fish tissue. (Delisted in 2002; first listed in 1988)	General use of the pesticide dieldrin banned *Listed in Category 5 for other pollutants	No
Mineral Creek From Devils Canyon to Gila River 15050100-012B	19.6 m	Beryllium, zinc, and low pH (Delisted in 2004; first listed in 1992)	Mineral Creek is diverted around a large mining operation. Monitoring surface water quality to assure this is sufficient to protect water quality in the stream. *Listed in Category 5 for other pollutants	No
Painted Rock Reservoir 15070101-1020A	100 a	Dieldrin in fish tissue. (Delisted in 2002; first listed in xxxx)	General use of the pesticide dieldrin banned *Listed in Category 5 for other pollutants	No
Salt River From 23 <sup>rd</sup> Avenue WWTP to Gila River 15060106B-001D	14.1 m	Dieldrin in fish tissue. (Delisted in 2002; first listed in 1988)	General use of the pesticide dieldrin banned *Listed in Category 5 for other pollutants	No
Tempe Town Lake 15050100-1588	220 a	Low pH (Delisted in 2004;	Treating lake with copper sulfate to control algal growth in coordination with a	4B alternative – Lake

<b>SURFACE WATER DESCRIPTION REACH NUMBER</b>	<b>SIZE (miles / acres)</b>	<b>POLLUTANTS DELISTED DUE TO IMPROVEMENTS</b>	<b>ACTIONS RESULTING IN IMPROVEMENTS</b>	<b>TMDL APPROVED</b>
		first listed in 2002)	rigorous monitoring program. *Listed in Category 5 for other pollutant	management plan
<b>SALT WATERSHED</b>				
Pinal Creek From lower Pinal Creek WTP to Salt River 15060103-280D	6.4 m	Copper, manganese, zinc, and low pH (Delisted in 2002; first listed in 1988)	Ground water is pumped so that surface water flow discontinues (flow was intermittent originally in this area). The water is treated and pumped back into the stream, providing clean perennial flow. *No remaining impairments	No
<b>SAN PEDRO WATERSHED</b>				
<b>SANTA CRUZ WATERSHED</b>				
<b>UPPER GILA WATERSHED</b>				
<b>VERDE WATERSHED</b>				
Munds Creek From headwaters to Oak Creek 15060202-415	17.0 m	<i>E. coli</i> bacteria, nitrogen and phosphorus (Delisted in 2002; first listed in 1994)	Wastewater reuse applications modified to keep effluent from contaminating Munds Creek. *No remaining impairments	No
Ashbrook Wash From Grande Wash to Verde River 15060203-989	2 m	<i>E. coli</i> bacteria (To delist in 2006; first listed in 2004)	Wastewater treatment plant no longer discharging to this wash. *No remaining impairments	No

**Total No Longer Impaired due to water quality improvements:** Fifteen stream reaches with 163.9 stream miles and four lakes/reservoirs with 20,285 acres.